Test Laboratory: UL CCS SAR Lab A

01_Bottom Face_UMTS1900_Band II

Communication System: WCDMA (UMTS); Frequency: 1852.4 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1852.4 MHz; σ = 1.494 mho/m; ε_r = 52.37; ρ = 1000 kg/m^3
Phantom section: Flat Section

Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3686; ConvF(6.99, 6.99, 6.99); Calibrated: 1/24/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1239; Calibrated: 11/17/2010
- Phantom: ELI v4.0(B); Type: QDOVA001BB; Serial: 1099
- Measurement SW: DASY52, Version 52.6 (2);SEMCAD X Version 14.4.5 (3634)

UMTS/L-ch/Area Scan (161x201x1): Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 1.300 mW/g

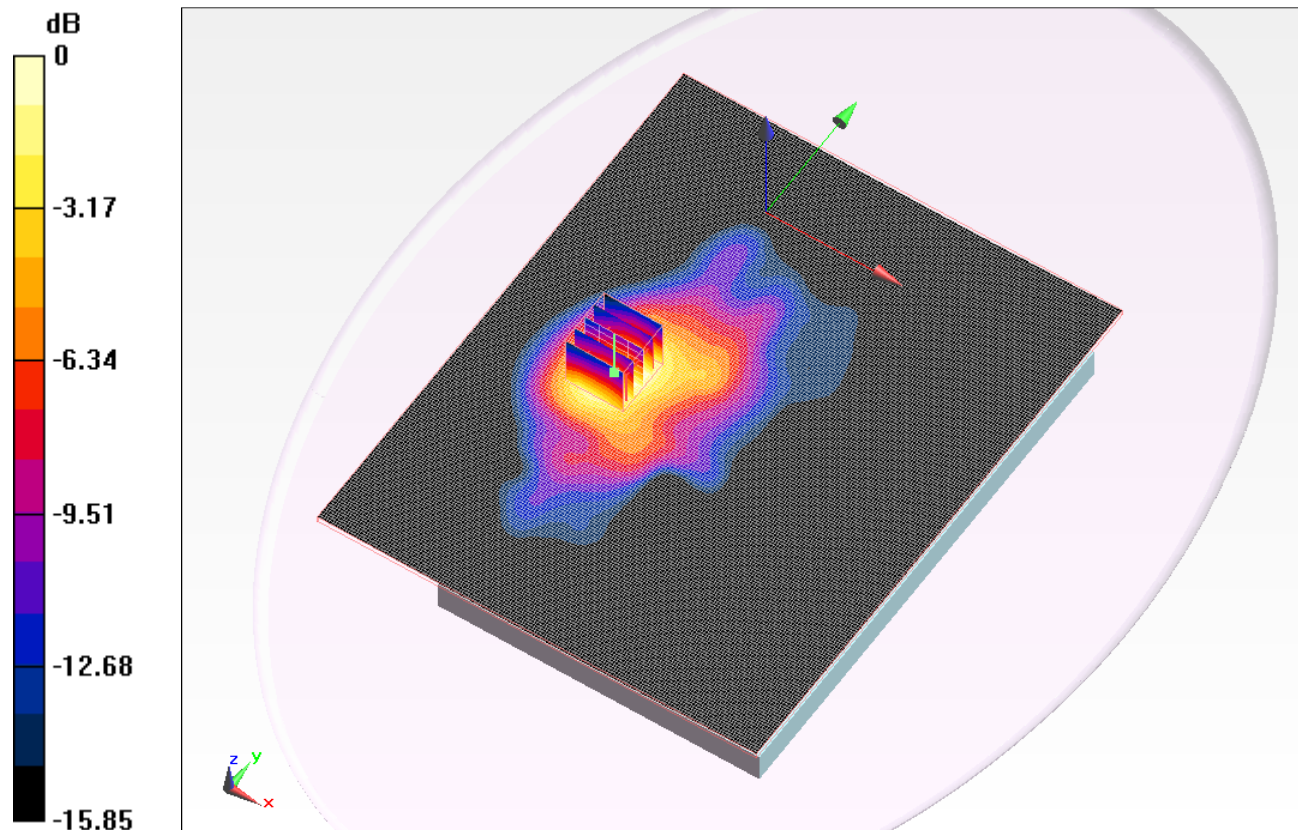## UMTS/L-ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 27.258 V/m; Power Drift = -0.10 dB
Peak SAR (extrapolated) = 1.480 W/kg
SAR(1 g) = 0.961 mW/g; SAR(10 g) = 0.608 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.164 mW/g

$0 \, dB = 1.160 mW/g$

Test Laboratory: UL CCS SAR Lab A

02_Bottom Face_UMTS1900_Band II

Communication System: WCDMA (UMTS); Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.525 mho/m; ε_r = 52.26; ρ = 1000 kg/m^3
Phantom section: Flat Section

Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3686; ConvF(6.99, 6.99, 6.99); Calibrated: 1/24/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1239; Calibrated: 11/17/2010
- Phantom: ELI v4.0(B); Type: QDOVA001BB; Serial: 1099
- Measurement SW: DASY52, Version 52.6 (2);SEMCAD X Version 14.4.5 (3634)

UMTS/M-ch/Area Scan (161x201x1): Measurement grid: dx=15mm, dy=15mm
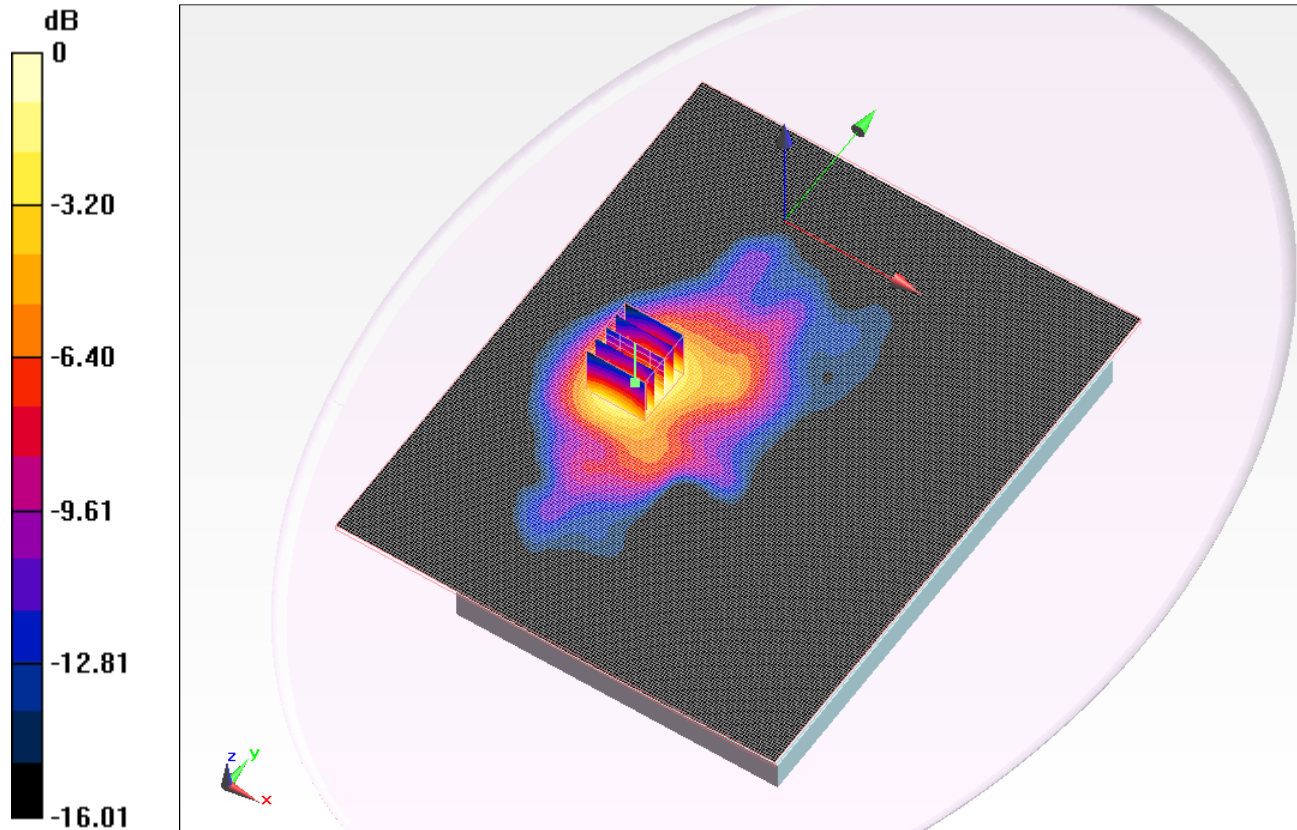Maximum value of SAR (interpolated) = 1.552 mW/g

UMTS/M-ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 29.678 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 1.783 W/kg
SAR(1 g) = 1.17 mW/g; SAR(10 g) = 0.724 mW/g
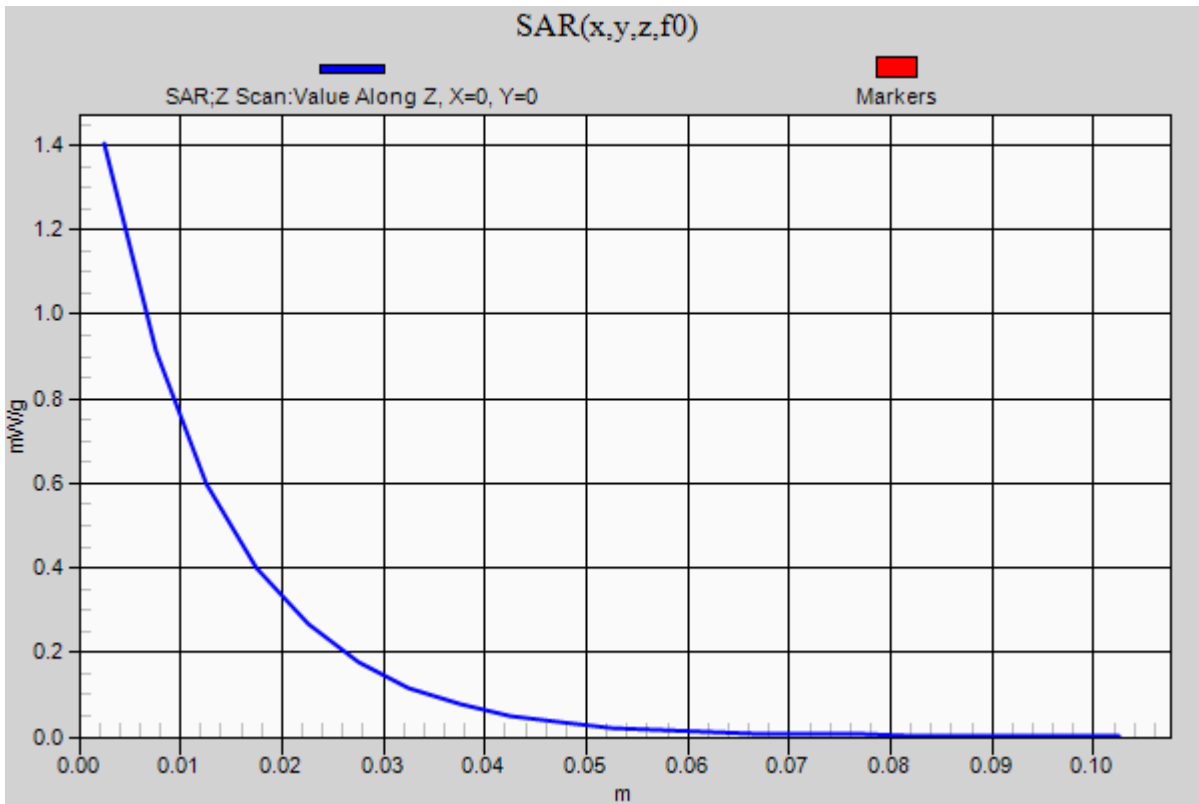Maximum value of SAR (measured) = 1.410 mW/g

0 dB = 1.410mW/g

Test Laboratory: UL CCS SAR Lab A

02_Bottom Face_UMTS1900_Band II

Communication System: WCDMA (UMTS); Frequency: 1880 MHz; Duty Cycle: 1:1

UMTS/M-ch/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Maximum value of SAR (measured) = 1.404 mW/g

Test Laboratory: UL CCS SAR Lab A

03_Bottom Face_UMTS1900_Band II

Communication System: WCDMA (UMTS); Frequency: 1907.6 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1907.6 MHz; σ = 1.556 mho/m; ε_r = 52.164; ρ = 1000 kg/m^3
Phantom section: Flat Section

Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3686; ConvF(6.99, 6.99, 6.99); Calibrated: 1/24/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1239; Calibrated: 11/17/2010
- Phantom: ELI v4.0(B); Type: QDOVA001BB; Serial: 1099
- Measurement SW: DASY52, Version 52.6 (2);SEMCAD X Version 14.4.5 (3634)

UMTS/H-ch/Area Scan (161x201x1): Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 1.558 mW/g

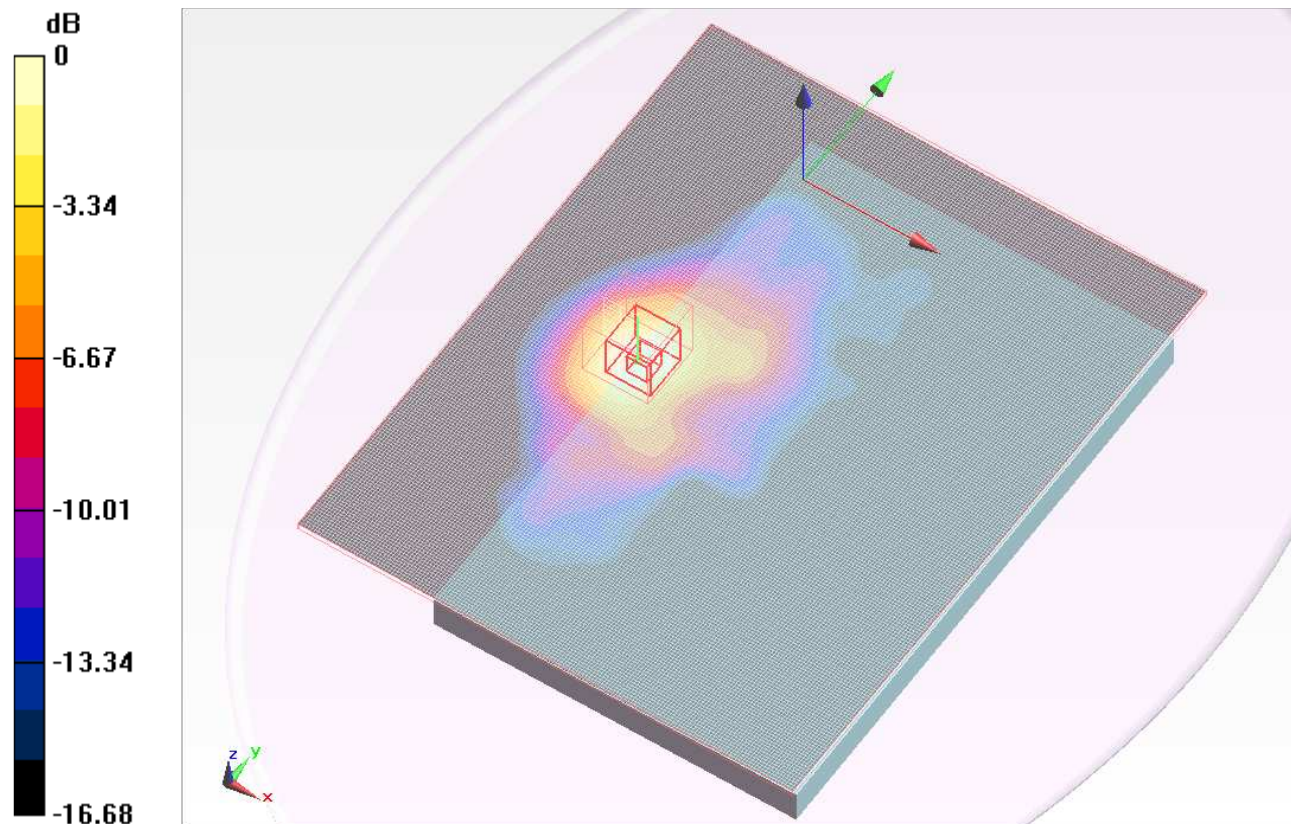## UMTS/H-ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 29.764 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 1.799 W/kg
SAR(1 g) = 1.18 mW/g; SAR(10 g) = 0.718 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.411 mW/g
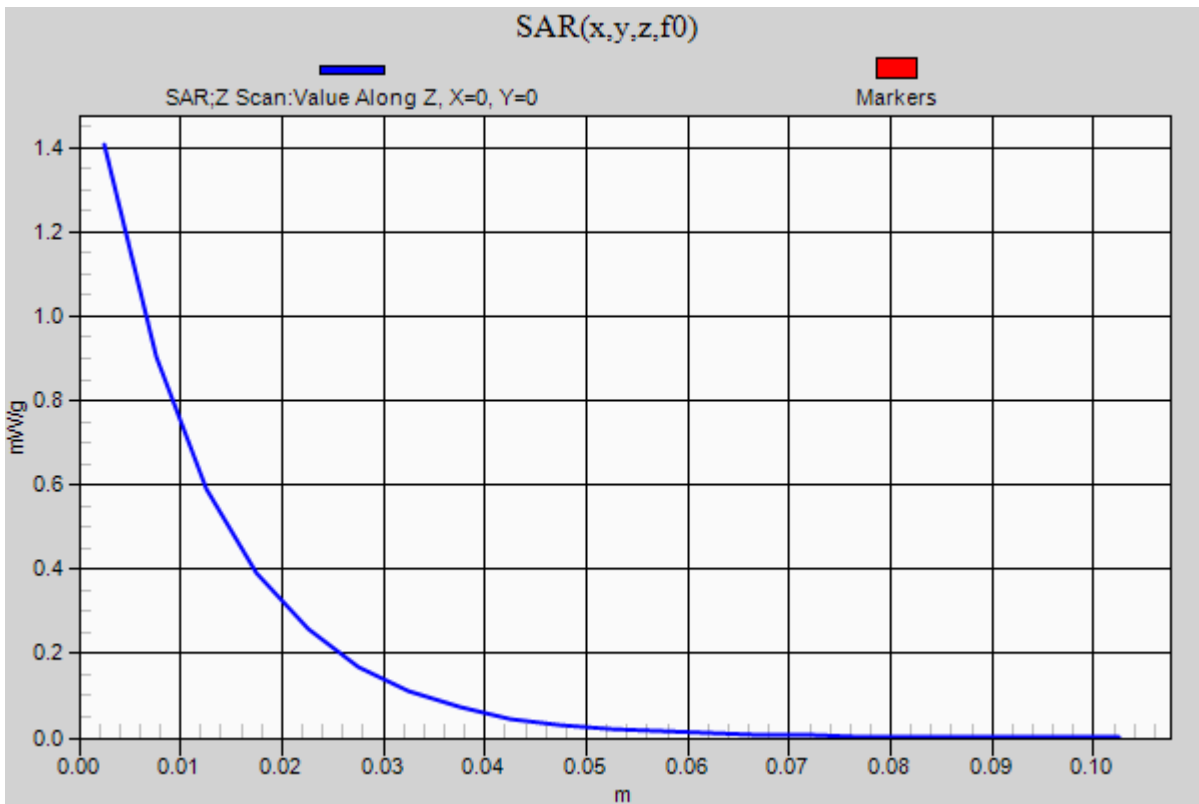

0 dB = 1.410mW/g

Test Laboratory: UL CCS SAR Lab A

03_Bottom Face_UMTS1900_Band II

Communication System: WCDMA (UMTS); Frequency: 1907.6 MHz; Duty Cycle: 1:1

UMTS/H-ch/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.407 mW/g

Test Laboratory: UL CCS SAR Lab A

04_Secondary Landscape_UMTS1900_Band II

Communication System: WCDMA (UMTS); Frequency: 1852.4 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1852.4 MHz; σ = 1.494 mho/m; ε_r = 52.37; ρ = 1000 kg/m^3
Phantom section: Flat Section

Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3686; ConvF(6.99, 6.99, 6.99); Calibrated: 1/24/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1239; Calibrated: 11/17/2010
- Phantom: ELI v4.0(B); Type: QDOVA001BB; Serial: 1099
- Measurement SW: DASY52, Version 52.6 (2);SEMCAD X Version 14.4.5 (3634)

UMTS/L-ch/Area Scan (81x201x1): Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 1.174 mW/g

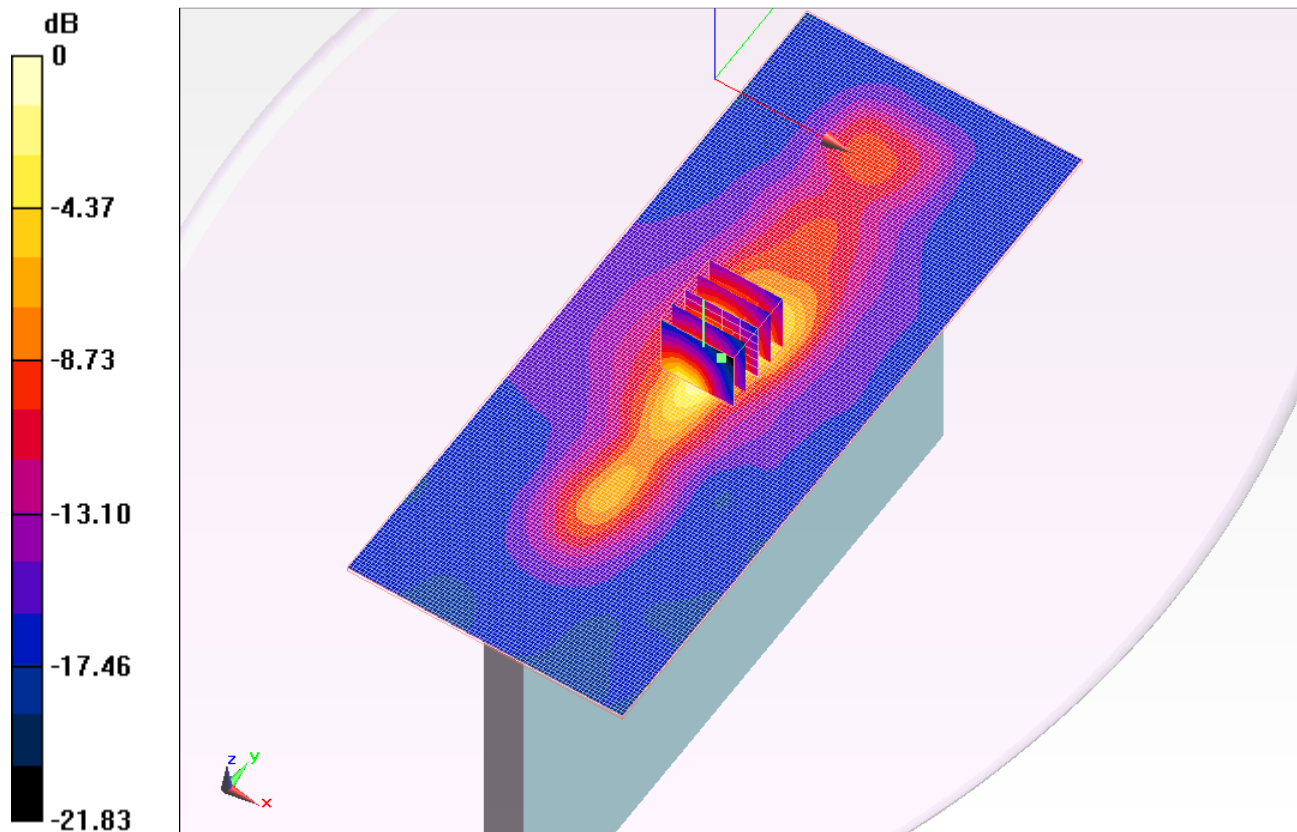## UMTS/L-ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.633 V/m; Power Drift = 0.07 dB
Peak SAR (extrapolated) = 1.555 W/kg
SAR(1 g) = 0.820 mW/g; SAR(10 g) = 0.409 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.046 mW/g

0 dB = 1.050mW/g

Test Laboratory: UL CCS SAR Lab A

05_Secondary Landscape_UMTS1900_Band II

Communication System: WCDMA (UMTS); Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.525 mho/m; $ε_r$ = 52.26; ρ = 1000 kg/m^3
Phantom section: Flat Section

Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3686; ConvF(6.99, 6.99, 6.99); Calibrated: 1/24/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1239; Calibrated: 11/17/2010
- Phantom: ELI v4.0(B); Type: QDOVA001BB; Serial: 1099
- Measurement SW: DASY52, Version 52.6 (2);SEMCAD X Version 14.4.5 (3634)

UMTS/M-ch/Area Scan (81x201x1): Measurement grid: dx=15mm, dy=15mm
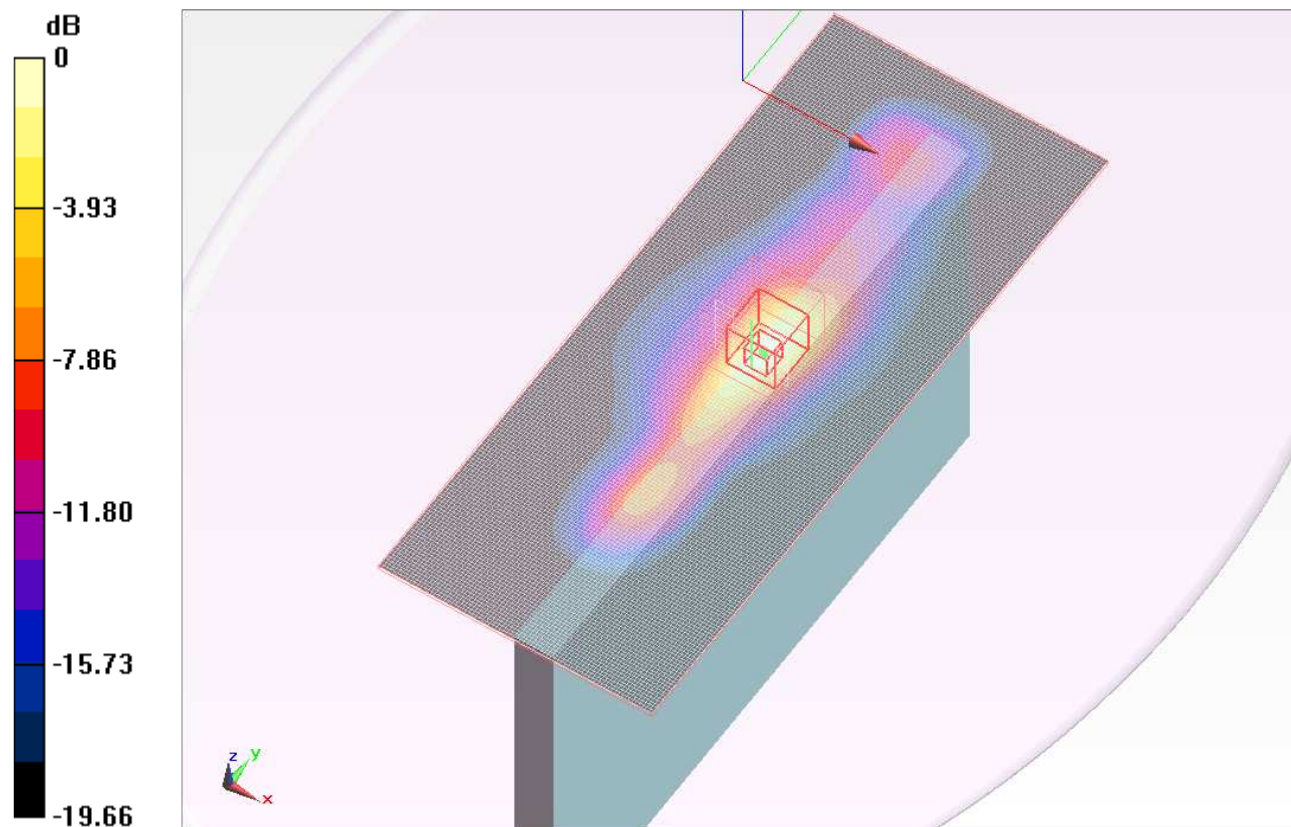Maximum value of SAR (interpolated) = 1.018 mW/g

UMTS/M-ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 24.321 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 1.594 W/kg
SAR(1 g) = 0.824 mW/g; SAR(10 g) = 0.405 mW/g
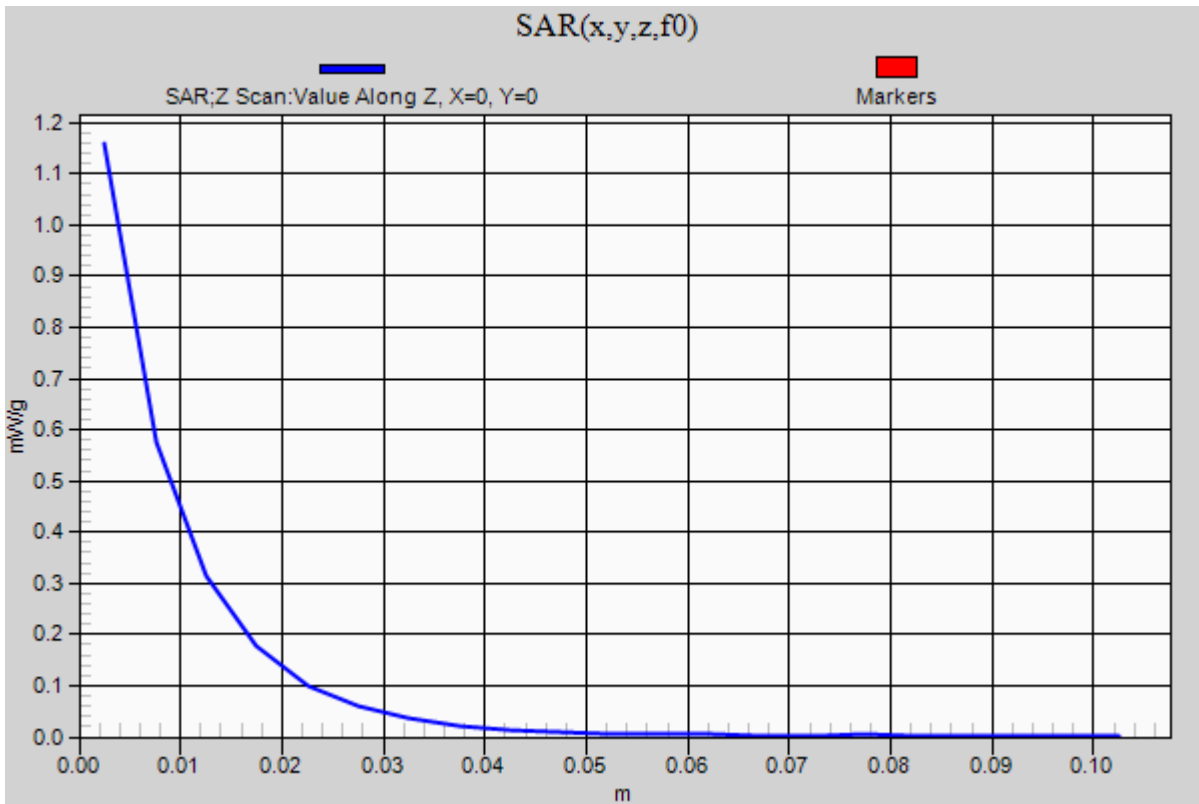Maximum value of SAR (measured) = 1.152 mW/g

0 dB = 1.150mW/g

Test Laboratory: UL CCS SAR Lab A

05_Secondary Landscape_UMTS1900_Band II

Communication System: WCDMA (UMTS); Frequency: 1880 MHz; Duty Cycle: 1:1

UMTS/M-ch/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Maximum value of SAR (measured) = 1.159 mW/g

Test Laboratory: UL CCS SAR Lab A

06_Secondary Landscape_UMTS1900_Band II

Communication System: WCDMA (UMTS); Frequency: 1907.6 MHz; Duty Cycle: 1:1
Medium parameters used (interpolated): f = 1907.6 MHz; σ = 1.556 mho/m; $ε_r$ = 52.164; ρ = 1000 kg/m^3
Phantom section: Flat Section

Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C
DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3686; ConvF(6.99, 6.99, 6.99); Calibrated: 1/24/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm
(Mechanical Surface Detection)
- Electronics: DAE4 Sn1239; Calibrated: 11/17/2010
- Phantom: ELI v4.0(B); Type: QDOVA001BB; Serial: 1099
- Measurement SW: DASY52, Version 52.6 (2);SEMCAD X Version 14.4.5 (3634)

UMTS/H-ch/Area Scan (81x201x1): Measurement grid: dx=15mm, dy=15mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (interpolated) = 1.025 mW/g

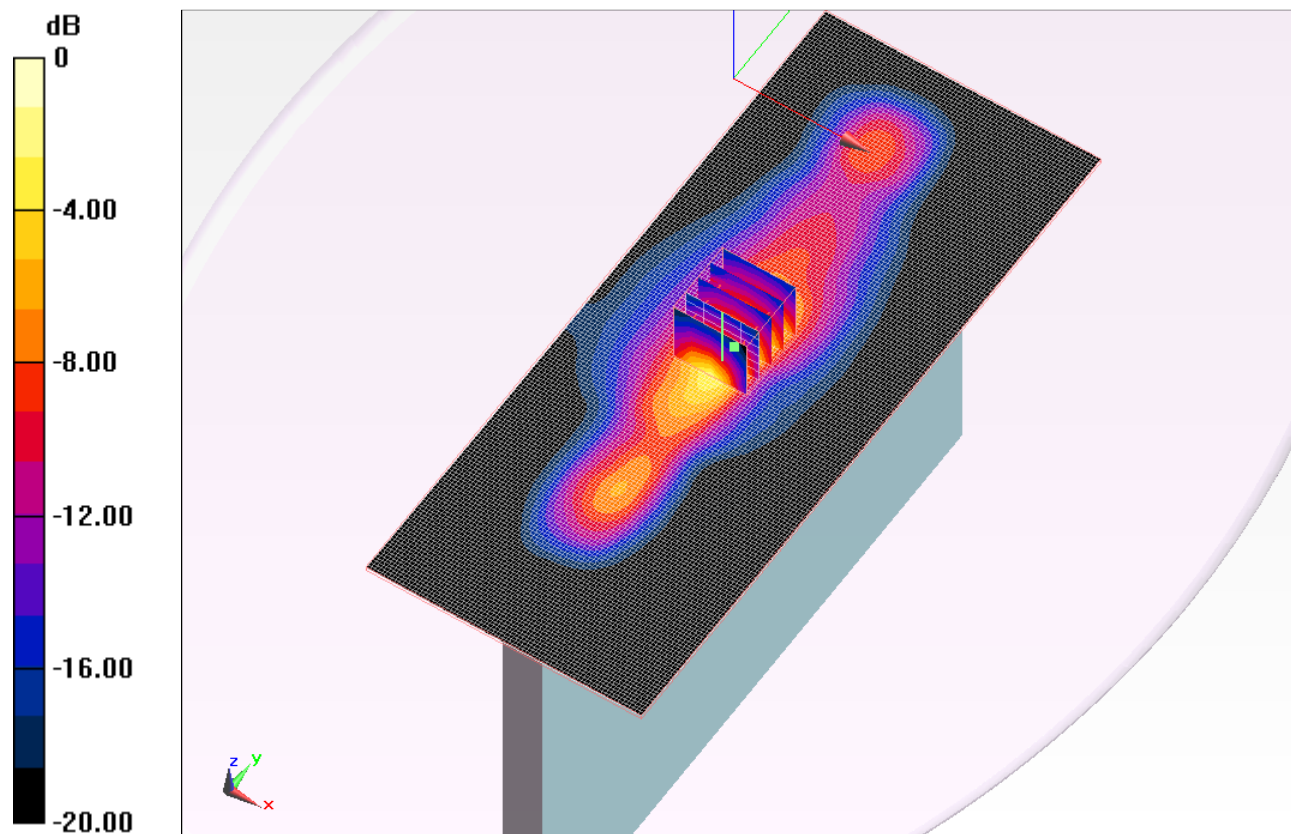## UMTS/H-ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 22.461 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 1.580 W/kg
SAR(1 g) = 0.813 mW/g; SAR(10 g) = 0.395 mW/g
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.160 mW/g
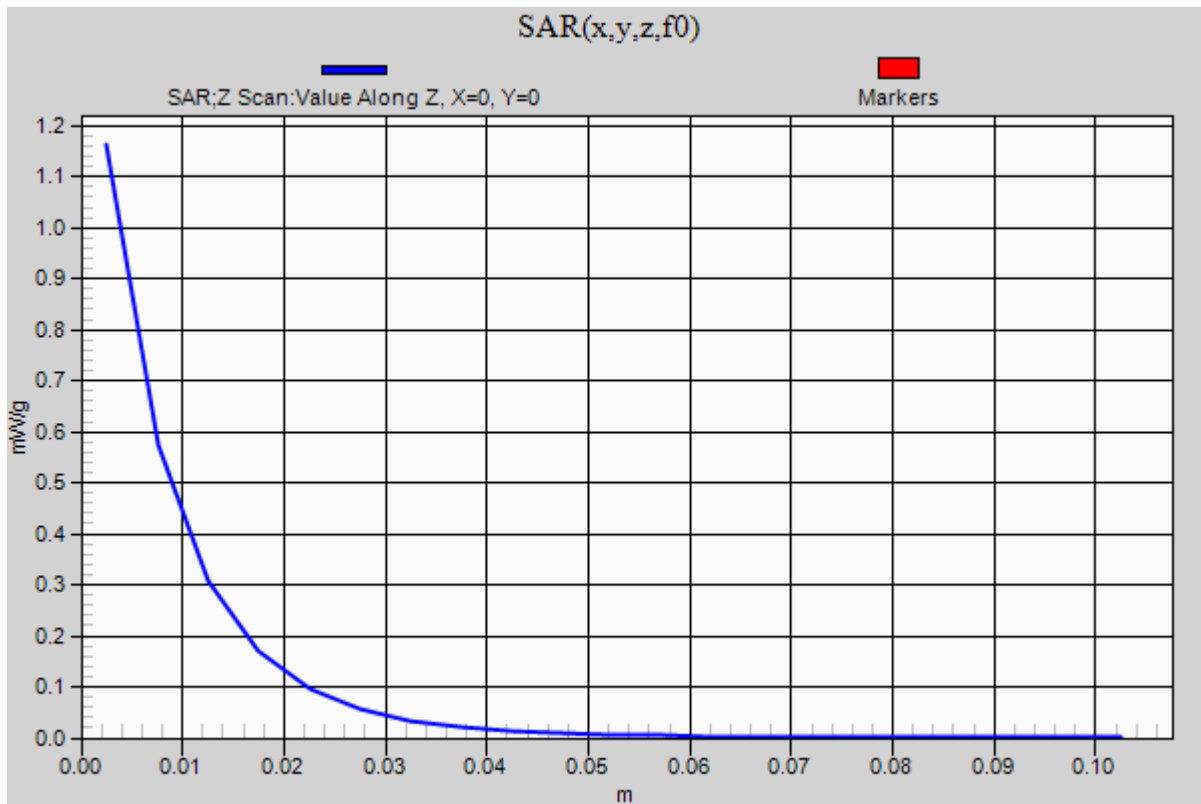

0 dB = 1.160mW/g

Test Laboratory: UL CCS SAR Lab A

02_Secondary Landscape_UMTS1900_Band II

Communication System: WCDMA (UMTS); Frequency: 1907.6 MHz; Duty Cycle: 1:1

UMTS/H-ch/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Info: Interpolated medium parameters used for SAR evaluation.
Maximum value of SAR (measured) = 1.163 mW/g

Test Laboratory: UL CCS SAR Lab C

@45 01_Bottom Face_UMTS1900_Band II

Communication System: UMTS-FDD (WCDMA); Frequency: 1880 MHz; Duty Cycle: 1:1
Medium parameters used: f = 1880 MHz; σ = 1.512 mho/m; ε_r = 52.297; ρ = 1000 kg/m^3
Phantom section: Flat Section

Room Ambient Temperature: 24.0 deg. C; Liquid Temperature: 23.0 deg. C

DASY5 Configuration:
- Area Scan setting - Find Secondary Maximum Within: 2.0 dB and with a peak SAR value greater than 0.0012W/kg
- Probe: EX3DV4 - SN3772; ConvF(6.76, 6.76, 6.76); Calibrated: 5/3/2011
- Sensor-Surface: 2.5mm (Mechanical Surface Detection (Locations From Previous Scan Used)), Sensor-Surface: 2.5mm
(Mechanical Surface Detection)
- Electronics: DAE4 Sn1239; Calibrated: 11/17/2010
- Phantom: ELI v4.0 (A); Type: QDOVA001BB; Serial: 1117
- Measurement SW: DASY52, Version 52.6 (2);SEMCAD X Version 14.4.5 (3634)

UMTS/45 Degrees M-ch/Area Scan (81x201x1): Measurement grid: dx=15mm, dy=15mm
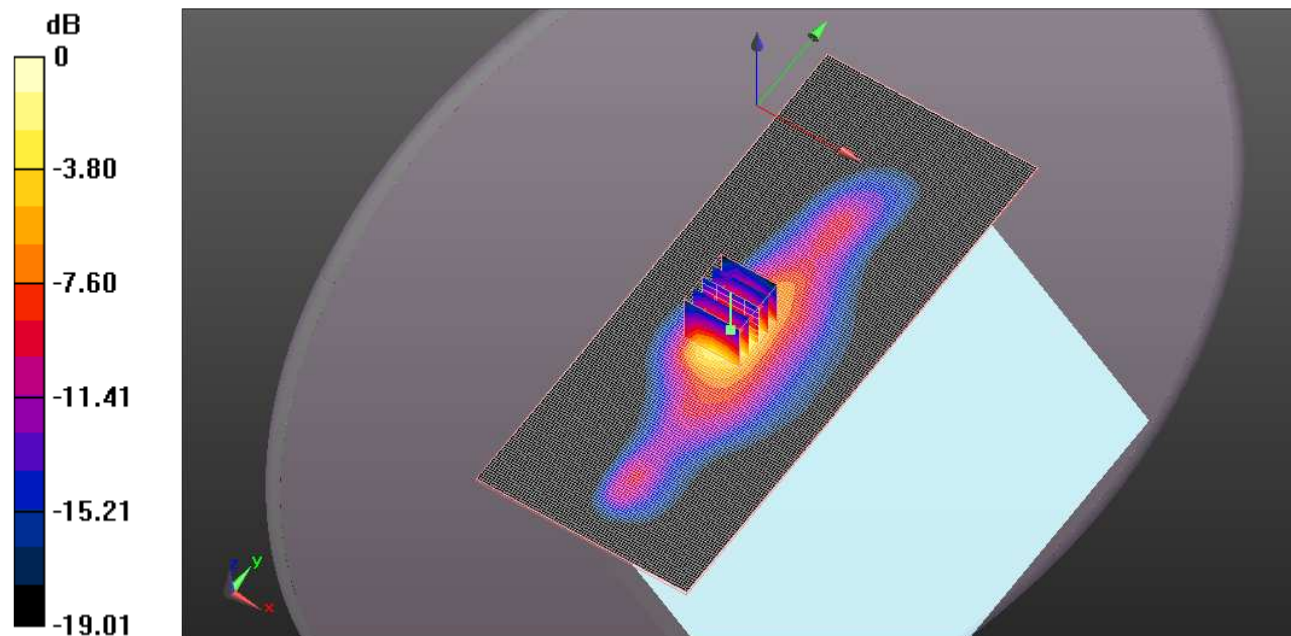Maximum value of SAR (interpolated) = 1.211 mW/g

UMTS/45 Degrees M-ch/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 23.614 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 1.808 W/kg
SAR(1 g) = 0.952 mW/g; SAR(10 g) = 0.477 mW/g
Maximum value of SAR (measured) = 1.307 mW/g

0 dB = 1.310mW/g

Test Laboratory: UL CCS SAR Lab C

@45 01_Bottom Face_UMTS1900_Band II

Communication System: UMTS-FDD (WCDMA); Frequency: 1880 MHz; Duty Cycle: 1:1

UMTS/45 Degrees M-ch/Z Scan (1x1x21): Measurement grid: dx=20mm, dy=20mm, dz=5mm
Maximum value of SAR (measured) = 0.814 mW/g